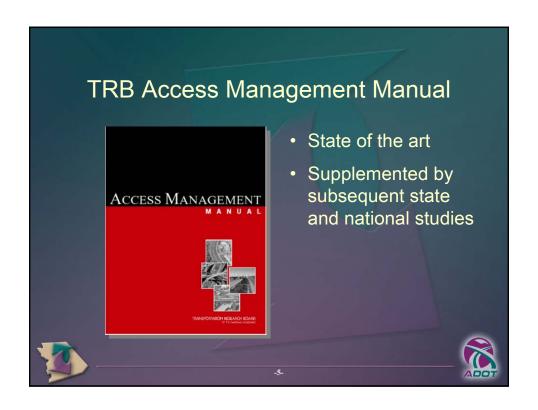


Meeting Agenda 1. Welcome / Introductions 2. Current Practice Review National Perspective State of Arizona 3. Vision Statement / Program Objectives 4. Workshops Structure Locations Schedule









Systemwide Access Management

- Develop hierarchy of access levels
- Establish access standards for each access classification
- Assign an access classification to each roadway segment
- Adopt supporting regulations and procedures
- Apply in permitting and roadway improvement process
- Supplement with corridor AM plans and agreements





COLORADO CLASSIFICATION SYSTEM

Table of access categories, with approximate descriptions		
F-W Interstate System, Freeway Facilities		
E-X Expressway, Major Bypass		
Rural	Non-Rural	
R-A Regional Highway	NR-A Regional Highway	
R-B Rural Highway	NR-B Arterial	
	NR-C Arterial	
F-R Frontage Roads (both urban and rural)		





Benefits of Access Management

- Safety
 - Reduces crashes up to 50%
 - Improves pedestrian/bicycle safety
- Mobility
 - Increases roadway capacity 23% to 45%
 - Reduces travel time and delay 40% to 60%
- Economic
 - Preserves market area for businesses
 - Improves customer safety and convenience
 - More efficient freight movement
- Positive effect on property values



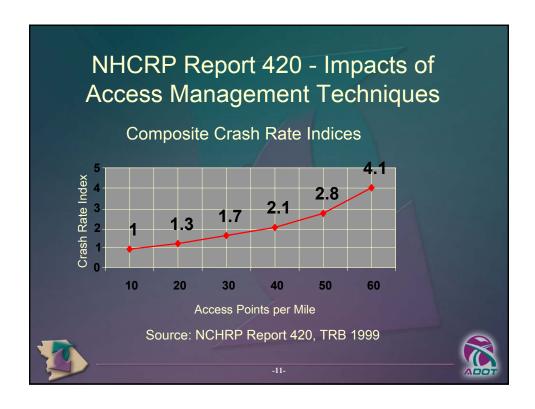


Benefits of Access Management

- Land Use/Aesthetic
 - More area for landscaping
 - Helps preserve community/scenic character
 - Promotes more efficient land use and site design
- Environmental
 - Reduced emissions and fuel consumption due to improved traffic progression
 - Avoids substandard access to lot splits, which can degrade environmentally sensitive areas

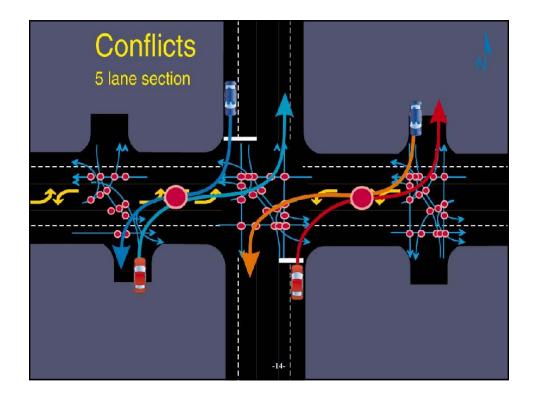












When to Use Medians



- All new multilane arterials
- Existing multilane arterials with ADT > 24,000 vpd
- · Rural multilane roadways
- High crash locations or areas where left turn should be limited for safety
- Multilane roadways with high pedestrian activity



Source: Access Management Manual, TRB 2003



FDOT Median Policy (1993)

If less than 40 MPH:

Include sections of raised or restrictive median for enhancing vehicular and pedestrian safety.

All multilane facilities shall be designed with a raised or restrictive median except multi-lane sections with design speeds of less than 40 mph.







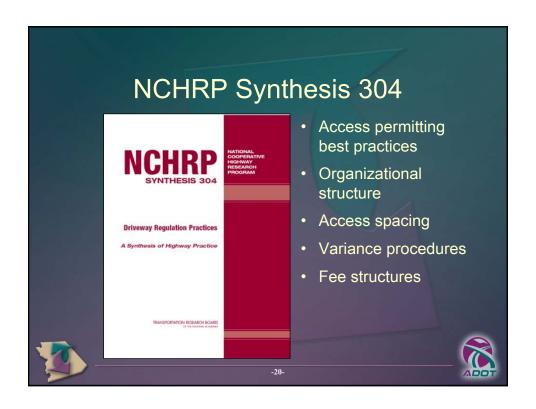
NCHRP Synthesis 351 Access Rights

- Effective, but costly
 - Best when applied strategically and with AM code
- Openings in control line may convey unintended access rights
 - Give thought to description of openings
- · Other strategies:
 - Purchase development rights on agric. lands
 - Dedication of access rights in local development process









Permitting Considerations

- Allow some variation from spacing standards at an administrative level
 - Distinguish between major and minor deviations from spacing standards
 - More rigorous review for major deviations
- · Establish permit conditions
 - Type and volume of traffic
 - Interim access until alternative access is obtained





Permitting Considerations

- Address when existing access must be brought into conformity, such as:
 - Substantial enlargements or improvements
 - Significant change in trip generation
 - Beyond any specific permit term or condition
 - If use is discontinued
- · Needs to be clearly defined





Improving Consistency in Permitting

- Adopt clear written standards
- Establish procedures and criteria for deviation
- Provide frequent staff training and communication opportunities
- Conduct a continuing outreach program





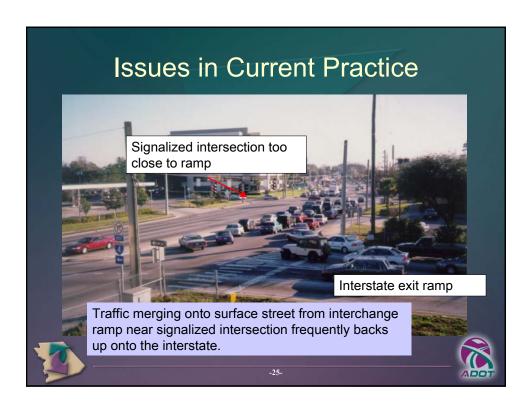
-25-

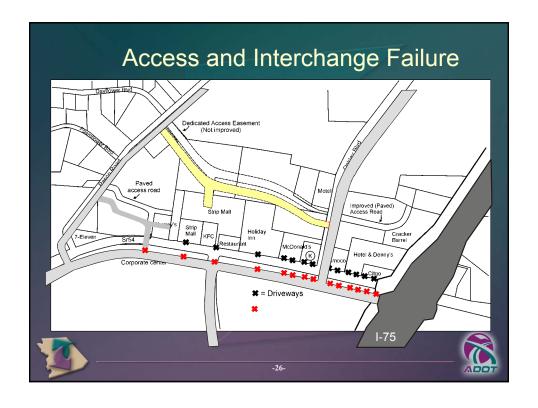
State of the Practice

Interchange Area Access









NCHRP Synthesis 332 Access Location on Crossroads in the Vicinity of Interchanges

- Many states acquire 100 ft urban and 300 ft rural access control per AASHTO policy
- Greater spacing provides clear safety and operational benefits
- Success factors:
 - AM code
 - Coordinated land use/transportation planning
 - Public involvement
 - Acquire more access rights wherever feasible
 - Single point urban interchanges





-27-

Interchange Area Access Spacing

Suggested Minimum Access Spacing Standards for 4-Lane Roads at Interchanges

	Area Type		
Access Type	Fully Developed Urban (35 mph)	Suburban (45 mph)	Rural (55 mph)
First Access from Off-Ramp	750	990	1,320
First Median Opening	990	1,320	1,320
First Access Before On-Ramp	990	1,320	1,320
First Major Signalized Intersection	2,640	2,640	2,640



Source: NCHRP Report 420, TRB 1999







NCHRP Synthesis 289 Corridor Management



- Corridor designation and partnering
- Public involvement and visioning
- Corridor analysis
- Alternative development and selection
- Implementation plan & agreements

- Adopted plan supersedes systemwide standards
- Appropriate changes in local policy
- Secure funding for short range improvements
- Strategies for full implementation





NCHRP Synthesis 337 Cooperative Agreements for Corridor Management

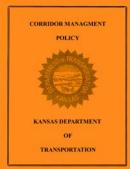
- Integrate plan into policies, practices and regulations
 - Joint administration
- Provide for future updates to the plan
- Create frequent opportunities for educating partners











- Designation of high priority "Protected Routes"
- Cooperative agreements with local agencies
- Corridor master plan with access policies and concepts
- Formal adoption by each agency
- Fund for local improvements that support the plan



-33-

U.S. Highway 183, Vine Street Corridor Master Plan





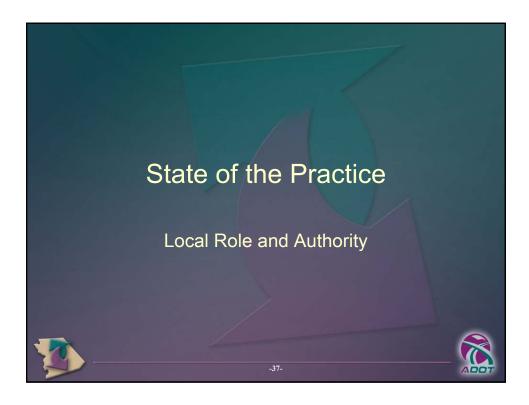
- ROW dedicated by property owners
- Funding 2/3 KDOT and 1/3 City
 - City allowed to apply value of dedicated ROW toward their 1/3 match









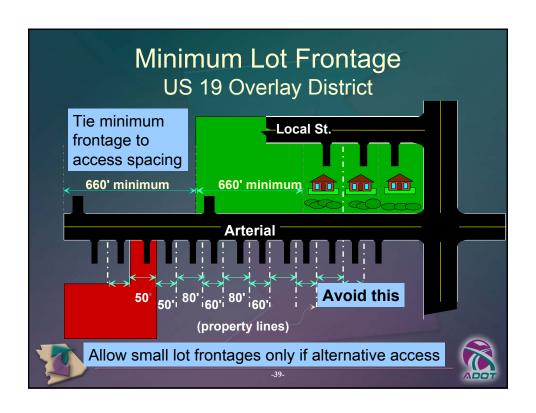


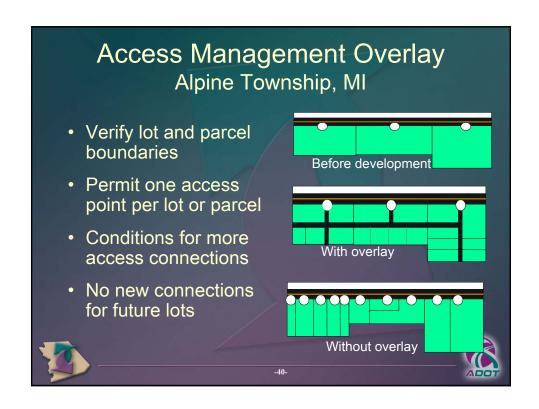
Local Access Control Powers

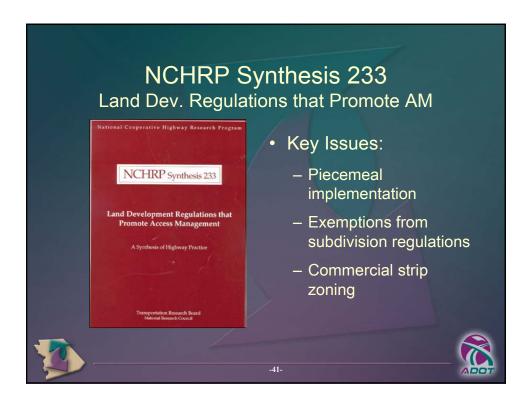
- General plans and transportation plans
 - policies and guidelines, functional classification, street networks, activity centers
- Subdivision regulations
- Zoning regulations
- Access management ordinances
- Plat and site plan review

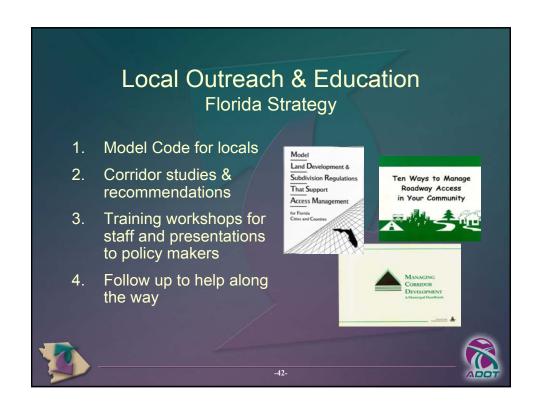


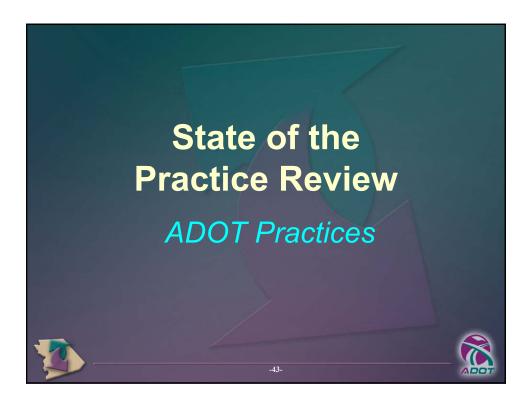












ADOT Access Classification System

- No statewide access classification system
 - Controlled access segments designated "asneeded"
- Access Management Policy 12 & MoveAZ
 - Directs ADOT to develop a statewide access classification system with appropriate standards for each access class





ADOT Access Management Criteria

- Criteria dispersed across several documents
- General guidance in Roadway Design Guidelines and Traffic Engineering Policies, Guidelines and Procedures
- Lack of specific standards
 - Signal spacing; access location, number, spacing; driveway throat length, combinations of width/radius; median opening spacing and design of openings, left turn lane warrants and design







ADOT Interchange Criteria

- Interchange spacing criteria in AM Policy 12
 3 mi rural, 2 mi suburban, 1 mi urban
- Control extended 300 feet + beyond ramp
- ROW staff try to acquire 600 feet in rural areas
- Corridor AM plans include guidelines
 - 1000 ft + spacing between ramps and signalized crossroads; right in/out no less than 400 ft





ADOT Access Permit Requirements

- Encroachment permits required for new turnouts and driveways
- No access where access control has been legally established
- Joint driveway applications require notarized mutual agreement





-47-

Permitting Issues

- Inconsistent administration
- Insufficient resources and lack of fees
- Lack of statewide standards and deviation criteria
- Few if any conditions in permit (e.g. type and volume of traffic)
- No criteria defining change in use





Permitting Issues

- · Weak enforcement
- Unpermitted turnouts and fence cuts in rural areas
- No clear interface with development review
- "Wildcat" subdivisions
 - Substandard access and street systems





ADOT Corridor Access Management Plans and Studies

2000 - 2006

- SR 85 AM Study
- US 93 AM Study
- US 93 AM Study
- SR 95 AM Study

- SR 179 AM Study
 SR 74 AM Study
 - SR 64 AM Study
 - SR 260 AM Plan
 - SR 68 AM Plan
 - SR 89A AM Plan





ADOT Corridor Access Management Plans

- Primarily done in context of a project
 - Implemented through roadway improvements, purchase of access control, and access roads
- Issues
 - Financial feasibility
 - Treatment of right-of-way issues
 - Process for state/local adoption and ongoing implementation (e.g. access permitting, development review, etc.)





-51-

Observations on Local Role

- Some have AM guidelines and standards
 - Considerable variation
 - Tucson/ADOT IGA
- Lot split exemptions causing access problems
 - Pima County lot split ordinance
 - AZ County Supervisors Assoc. Wildcat Lot Splitting Study
- Support and understanding for AM varies
 - Education, technical assistance, outreach needed
 - Statewide standards can form basis for improved coordination



Scottsdale Design Standards & Policy Manual

Street Type	Minimum Driveway Spacing
Local Residential/Local Collector	50 feet
Local Industrial/Local Commercial	165 feet
Minor Collector	165 feet
Major Collector	250 feet
Minor Arterial	330 feet
Major Arterial	500 feet

- · Minor street access where available
- Maximum two driveways
- Requires cross access in some cases





Summary and Observations

- · Strong policy framework to build upon
- Improve consistency through statewide procedures and standards, as well as training and statewide meetings for District staff
- Update and expand traffic engineering and design guidelines
- Support corridor project plans through cooperative agreements and police power strategies
- Leverage local powers through outreach, coordination, and statewide standards





Vision Statement / Program Objectives

Vision Statement

Develop a Statewide Access Management
Program that provides consistency of program
decisions and process while creating a
partnership with local agencies to support efficient
and safe operation of the State Highway System.





Program Objectives

- 1) Establish a statewide access classification system.
- 2) Develop access spacing and design standards.
- 3) Update interchange design and spacing criteria and establish minimum spacing standards.
- Update ADOT roadway design guidelines and traffic engineering policies.
- 5) Assign access classifications to each state highway.
- 6) Strengthen the access permitting process.

1

continued



Program Objectives, continued

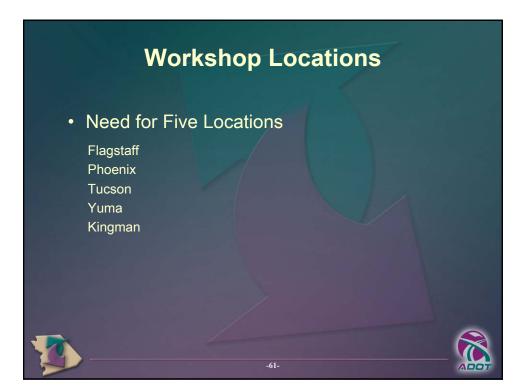
- 7) Provide for a strategic approach to the acquisition of access rights.
- 8) Establish clear procedures and guidance for adoption and implementation of corridor access management plans.
- 9) Provide outreach, technical assistance, and incentives to encourage local government participation.
- 10) Develop program materials that clearly communicate the importance of access management to stakeholder groups.







Workshop Structure Focus on Specific Audience Three Groups: Elected Officials Agency Staff Public, including Development and Business Community Two-hour session with each to provide information on what is access management Why it is Important Overview of Program Development Questions and Answers



Workshop Schedule

- 1st and 2nd weeks of March
- Agency Staff meeting followed the next day by a meeting with elected officials and then a public forum
- Need logistical support from each ADOT District





Next Steps

- Prepare and conduct workshops
- Build a program framework
- Define a classification system
- Access management presentation at Roads and Streets
- Schedule next TAC meeting



